

# GIA – Get Intune Assignments

<https://sibranda.github.io/GetIntuneAssignments/>

Developed by

**Sidnei Brandão**

<https://www.linkedin.com/in/sidnei-brandao-9925725a/>

<https://github.com/sibranda>

With the develop collaboration of

**Luís Henrique Demetrio**

<https://www.linkedin.com/in/luisdem/>

Beta tester and collaboration of

**Ricardo Mendes**

<https://www.linkedin.com/in/ricardo-silveira-mendes-095279/>

## About

Get Intune Assignments is a C#.NET program developed for Intune to query MS Graph Information.

This App intends to retrieve all Intune Items Assignments.

The focus is to retrieve Assignments Items target an Azure AD Group.

You can also export the data to CSV file if you wish.

Please send me any feedback you want. This can help me to fix bugs and make better solutions to help everyone.

## Copyrights Warranty and Support

This App is totally **Free**. I created it for **personal purposes** and decided to share it with the community.

I created this app in my free time, and I don't have much, like most people, so I can't give support or warranty the App will work like expected in your environment. Just trying to make my part in the world.

You are not required to use this. If you want to test it, I hope it can be useful.

## Requirements

**User access** to Intune and Azure Resources:

Users must have access to read All Intune Items and query for Azure AD Groups.

**Create/Register** an Azure App to Get Intune Assignments and get data from the environment.

Follow the **Read Rights** the User and the Azure App may need:

**Directory.Read.All**

**DeviceManagementApps.Read.All**

**DeviceManagementConfiguration.Read.All**

**DeviceManagementManagedDevices.Read.All**

**DeviceManagementServiceConfig.Read.All**

**Group.Read.All**

**GroupMember.Read.All**

**Policy.Read.All**

**User.Read.All**

## Document Version

This document was updated on **Mai 25, 2023**.

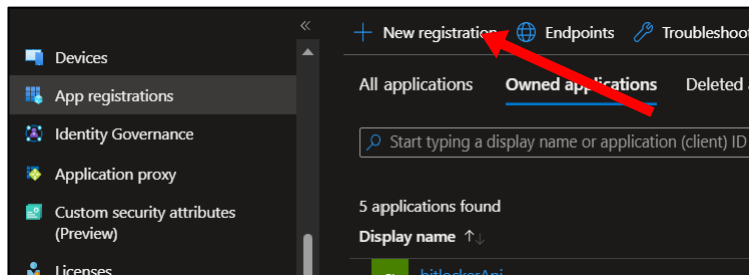
## Creating an App Registration on your Azure AD.

The Get Intune Assignments Application uses an **App Registered** to get MS Graph Token Authentication to be able to query your Intune and Azure Environment.

### Note

You can use any App you already have if your App have the Read Permissions Required.

Log in to the Azure Portal for your subscription, and go to the [App Registrations](#) Blade. Click **New registration** to create an Azure AD Application:



Give a **Name** for your application i.e., "GetIntuneAssignments"

Select the **Supported account types** i.e., "Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)"

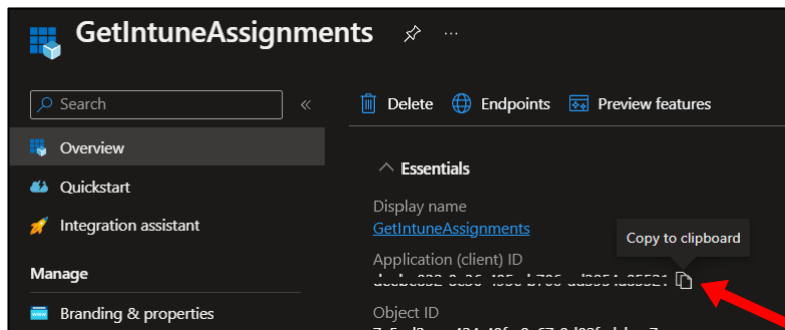
At **Redirect URI** (optional) choose **Public client/native (mobile & desktop)** and enter the following address:

"<https://login.microsoftonline.com/common/oauth2/nativeclient>"

Click the **Register** button.

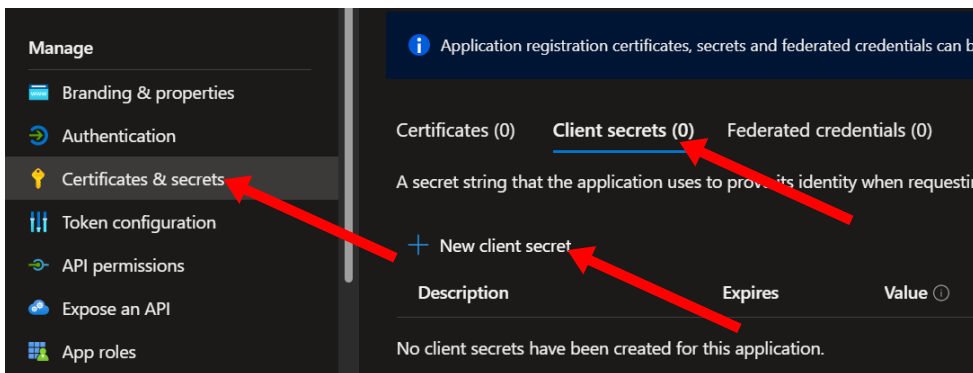
A screenshot of the 'Register an application' form in the Azure Portal. The form has a title 'Register an application' and a subtitle 'The user-facing display name for this application (this can be changed later)'. The 'Name' field contains 'GetIntuneAssignments' and has a green checkmark. Below this is the 'Supported account types' section with the question 'Who can use this application or access this API?'. There are four radio button options: 'Accounts in this organizational directory only (SIDS.COM only - Single tenant)' (selected), 'Accounts in any organizational directory (Any Azure AD directory - Multitenant)', 'Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)', and 'Personal Microsoft accounts only'. Below this is the 'Redirect URI (optional)' section with the text 'We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.' There are two input fields: 'Public client/native (mobile ...)' and 'https://login.microsoftonline.com/common/oauth2/nativeclient' (which has a green checkmark). At the bottom, there is a 'Register' button. Red arrows point to the 'Name' field, the selected 'Supported account types' radio button, the 'Public client/native (mobile ...)' dropdown, the 'https://login.microsoftonline.com/common/oauth2/nativeclient' input field, and the 'Register' button.

After creating/registering the App. Copy your **application (client) ID** to use in GIA configuration:

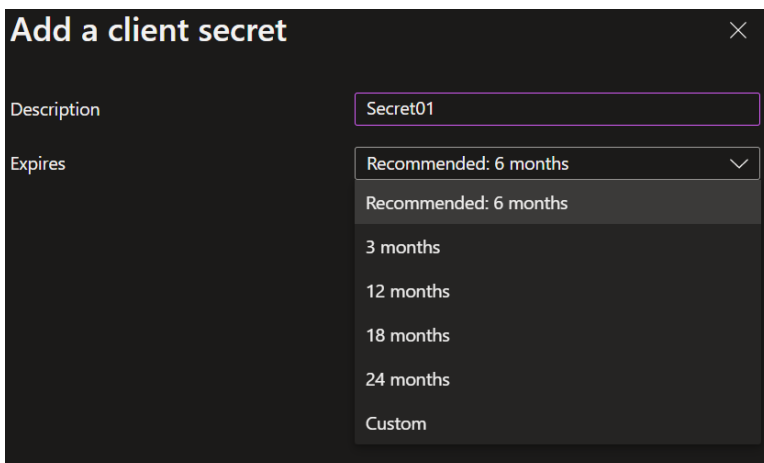


If you want to use Client Secret (**optional**) you can click Certificate & secrets to create a secret to your App:

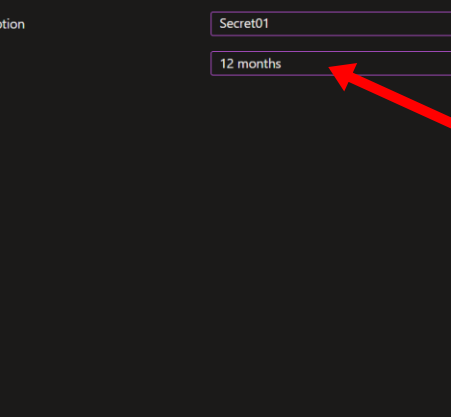
Click on Client secrets and + New client secret:



Determine how much time you want your secret to expire:



And click the Add button:



**Add a client secret** [X]

Description: Secret01

Expires: 12 months [v]

[Add] [Cancel]

When finished **copy the Value** of the Secret:

The screenshot shows the 'Client secrets' section of the Azure portal. At the top, there are tabs for 'Certificates (0)', 'Client secrets (1)', and 'Federated credentials (0)'. Below the tabs, a text description states: 'A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.' Underneath this is a '+ New client secret' button. A table lists the existing client secrets:

Description	Expires	Value	Secret ID
Secret01	9/23/2023	MS,SS ~~~~~	SECRET-012-1000-1111-1111

A red arrow points to the 'Show secret' icon (a document with a key) in the 'Value' column of the 'Secret01' row.

### Note

After creating Secrets, you **Need to Copy** the **Value**.  
**Azure will hide the value** after you leave this page.  
 So, **Don't Forget to copy** the Value before leave.

## Starting with Get Intune Assignments Application.

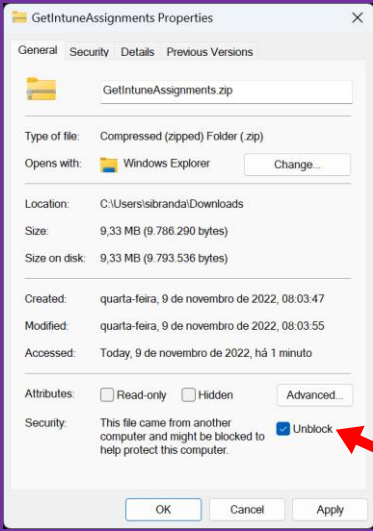
Go to the **Folder** where you **download** the **Get Intune Assignments** Application:

First, check if the Zip file you downloaded is not **Locked**.

**Note**

When the file is downloaded from internet  
It can be blocked for safety.  
Check if your Zip file is not **Blocked**:

**Before Extract**  
Right click on the file  
Go to the **Properties**  
Uncheck the “**Unblock**” checkbox if need!  
Click **Ok**.  
Then, you can extract the content.

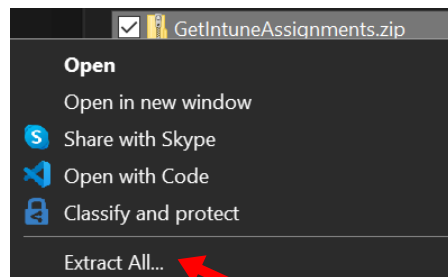


Extract Get Intune Assignments App from zip file

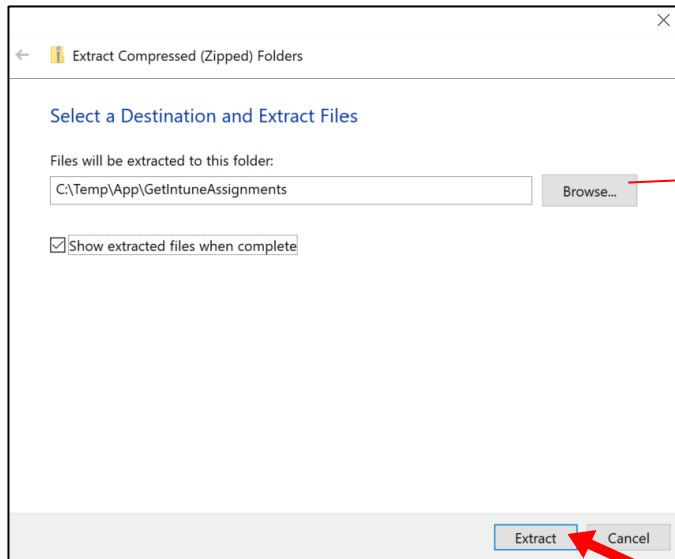
You can use any tool you want for this.

Here is how to use **Windows Compressed Folder** to extract:

Right click on the File and Click on **Extract All...**

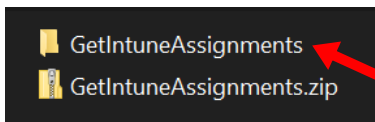


In the wizard window hit **the Extract** button and wait to complete.



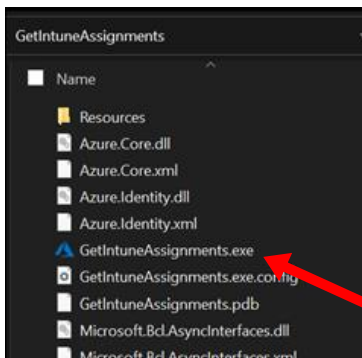
You can Browse for another folder if you wish.

Will be created a new **folder** at directory you choose:



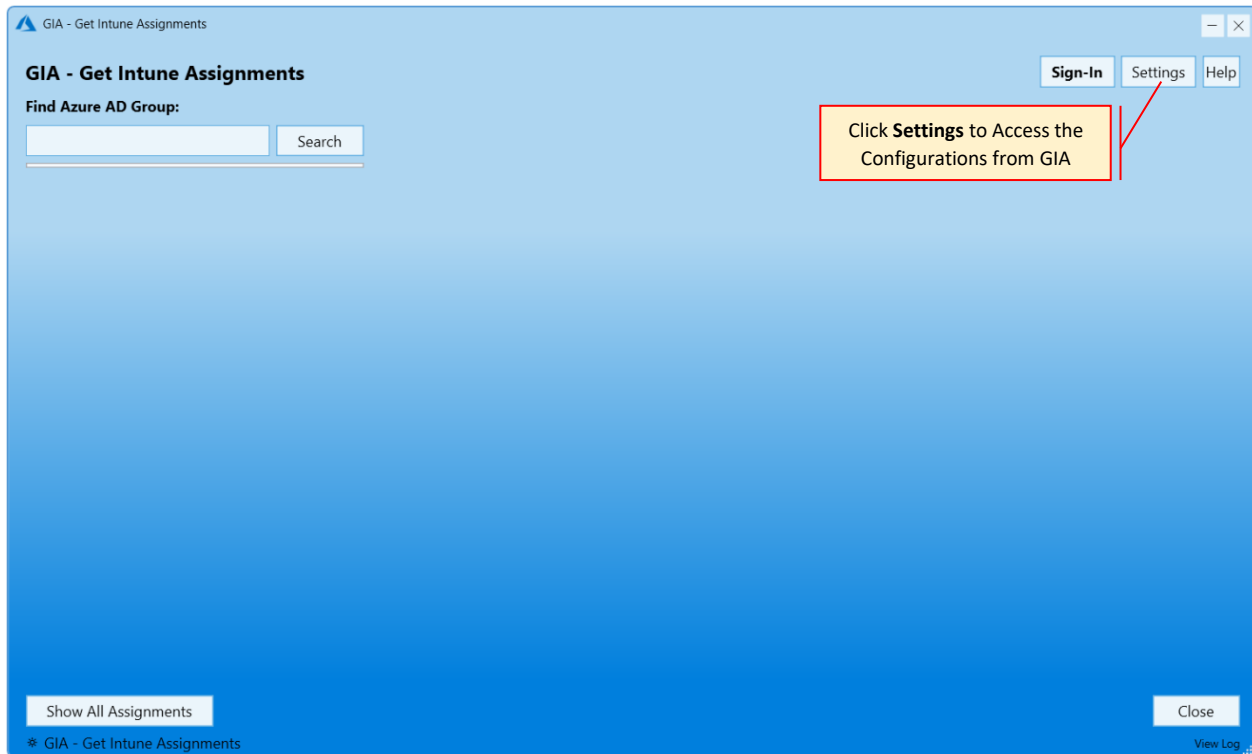
Open this folder and locate  GetIntuneAssignments.exe

Double click to run the Application

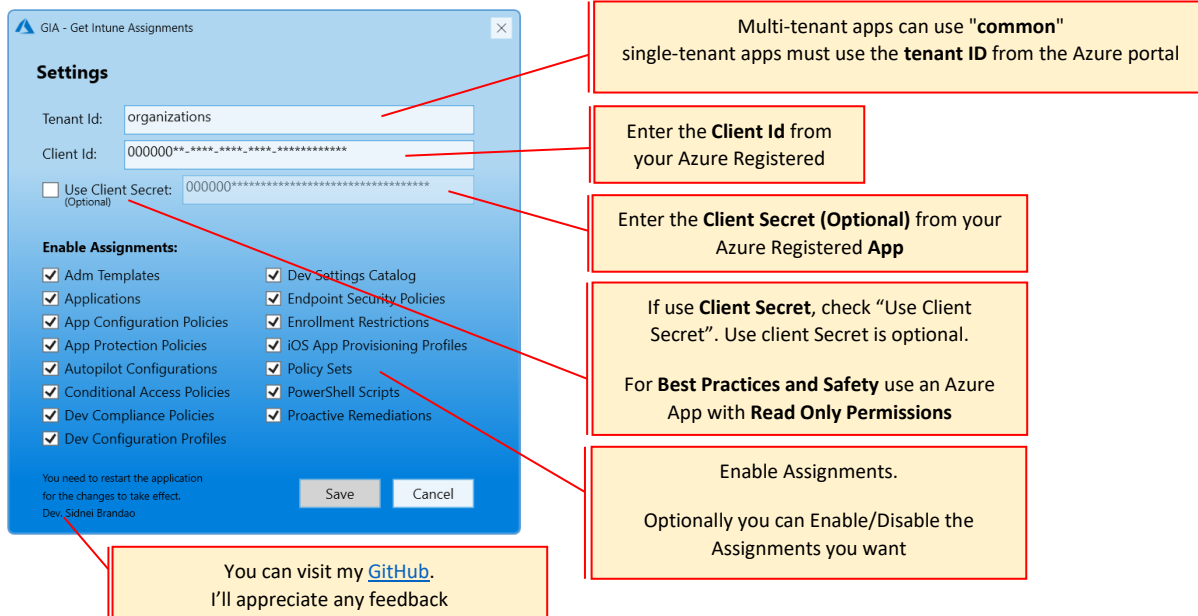


## Configuring Get Intune Assignments Application.

In the Main Windows from **Get Intune Assignments** clique the **Settings** Button.

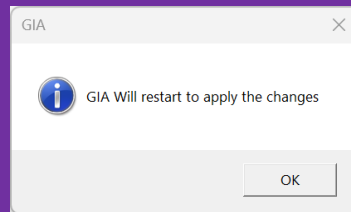


Enter your **Client** and **Tenant Id** and **Save** the Settings.



### Note

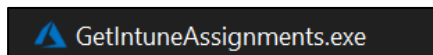
Be sure to enter the correct application (Client) Id from your app to Get Intune Assignments Work properly. Get Intune Assignments will **Restart** to apply the changes.



## Running Get Intune Assignments Application.

After setting your **Client ID** you can now **Run** the **application**.

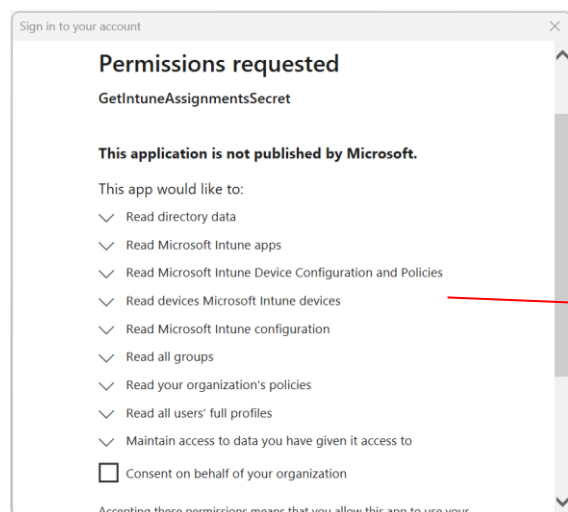
Just execute **GetIntuneAssignments.exe**



The Application will start.

You can click on **Sign-In** Button and enter your **Azure AD User** who have **Rights** to read Intune objects.

**First Time Sign-In using a User**, the Permission dialog box will ask you to **Consent the permissions**.

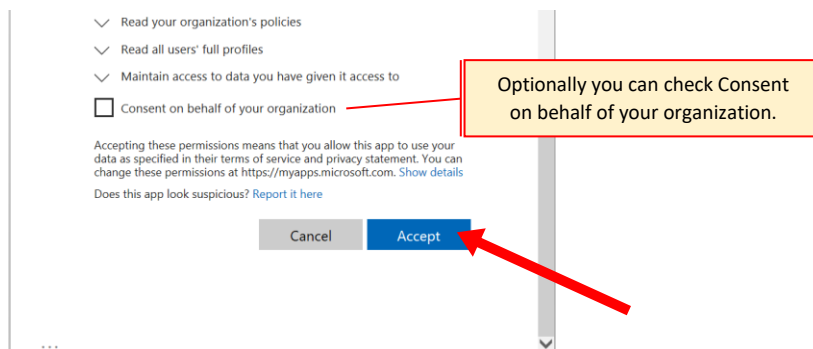


### Note

**ALL Permissions** application needs is set to **READ**. Get Intune Assignments **Can't** and **Won't** change anything in your environment.

Confirm everything is **READ** permissions.

Check **"Consent on behalf of your organization"** and click **Accept Button**

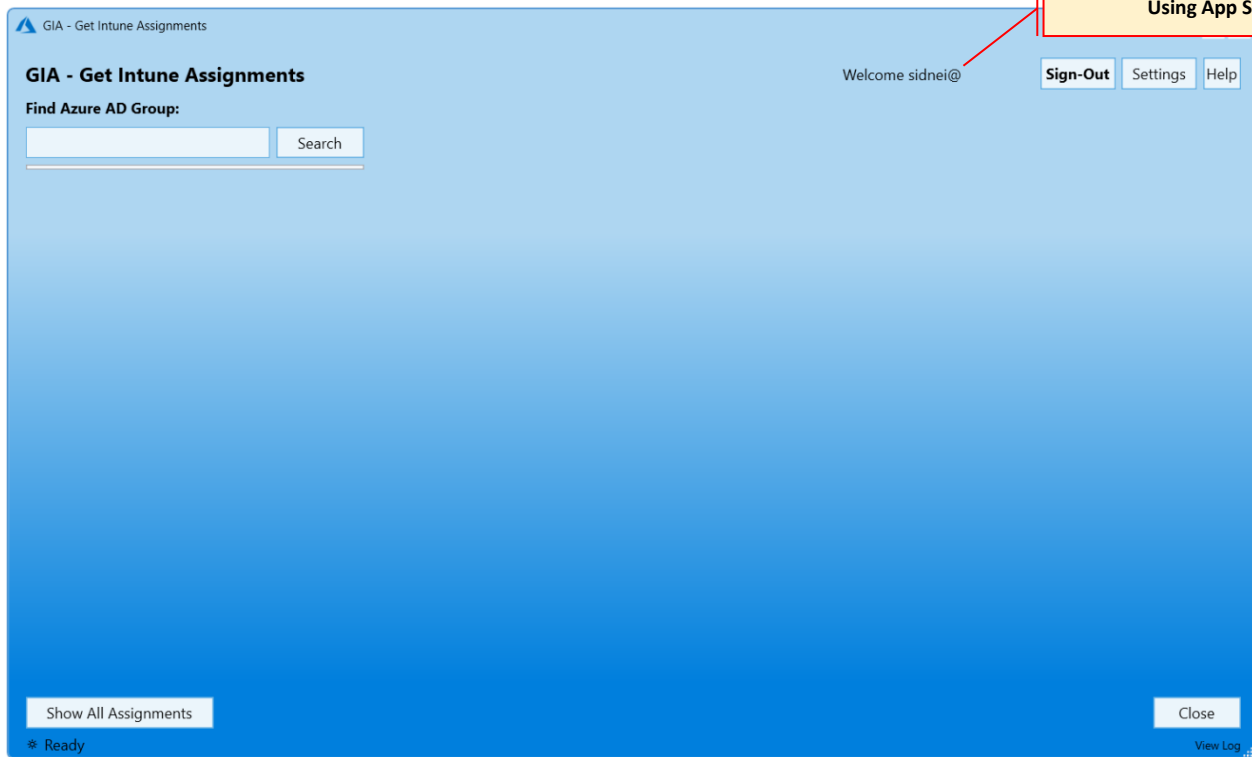




## Note

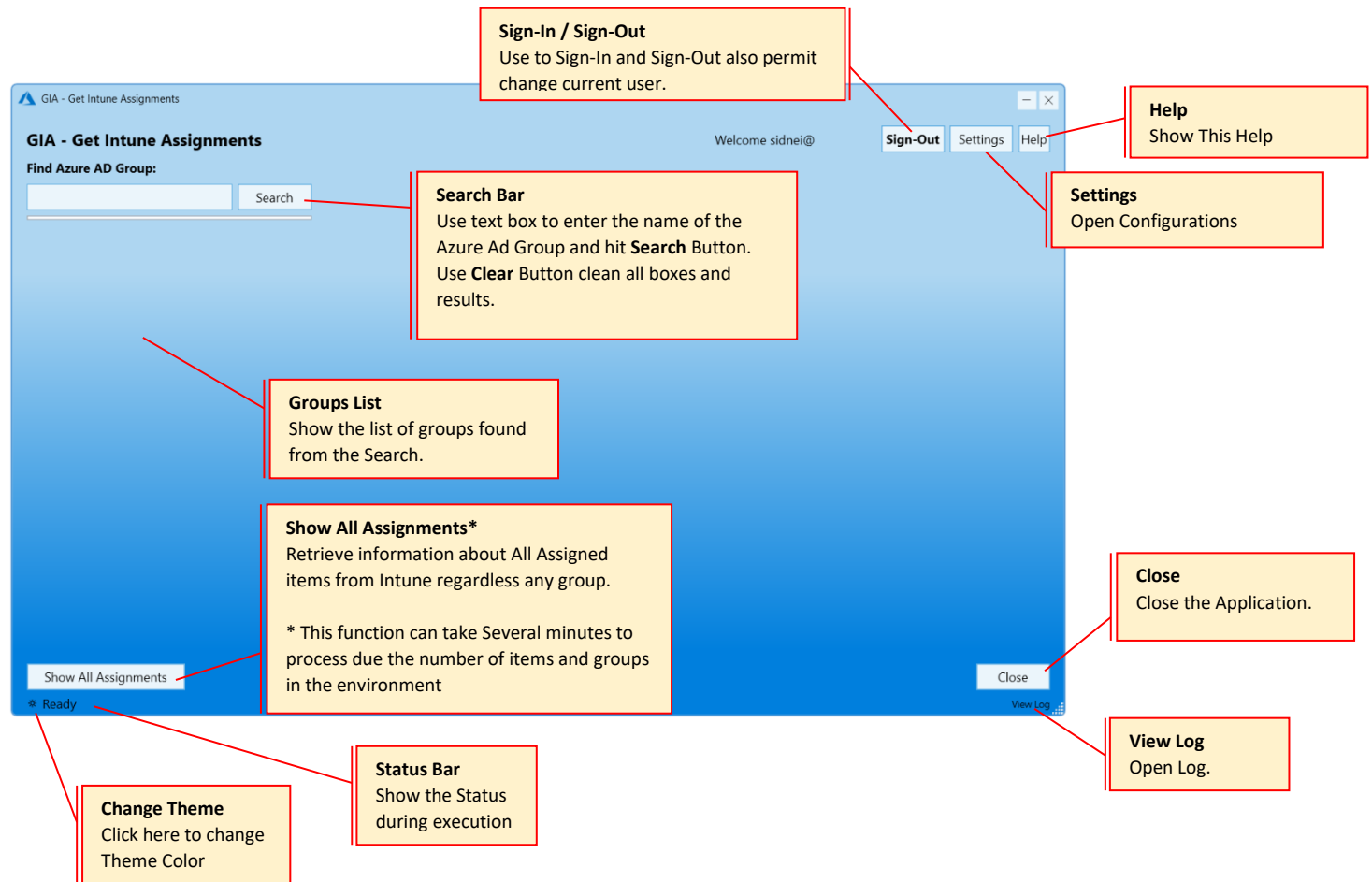
Get Intune Assignments needs **Read Only** permissions.  
The App will **NEVER** change anything in your environment.

After the Consent you can see the user is Signed In



GIA Application is ready to use.

## Interface Elements on Get Intune Assignments Application.



## How to retrieve Information from specific Azure AD Group.

Type any string to search for an Azure AD Group and hit **Search** Button:  
After searching, just click on the Azure AD Group you want to retrieve Information.

The screenshot shows the GIA - Get Intune Assignments web application. The interface is divided into several sections:

- Find Azure AD Group:** A search bar with the text "autopilot" and a "Search" button. Below it, a list of groups is shown, with "Intune - Devices - Windows - Autopilot Dynamic" selected.
- Group Information:** A sidebar on the right showing various policy counts for the selected group, such as "Administrative Templates: 0", "Applications: 1", "App Configuration Policies: 0", "App Protections Policies: 0", "Autopilot Configurations: 0", "Conditional Access Policies: 0", "Device Compliance Policies: 0", "Device Configuration Profiles: 2", "Device Settings Catalog: 0", "Endpoint Security Policies: 0", and "Enrollment Restrictions: 0".
- Group Details:** A main panel on the right showing details for the selected group, including "Group name", "Id", "Created date time", "SSID", "Group Type", "Membership rule", "Rule processing state", and "Writeback Enable".
- Members:** A section below the group details showing a list of members with a "Search" button and a "List of Members" section.
- Export Options:** At the bottom, there are buttons for "Show All Assignments", "Export All", and "Export Selected".

Annotations highlight the following features:

- Name or string to search for Azure Ad Groups:** Points to the search bar in the "Find Azure AD Group" section.
- Name from selected Azure AD Group:** Points to the "Group name" field in the "Group Details" section.
- Group Information Including overview and Members:** Points to the "Group Information" sidebar.
- Search Members:** Points to the "Search" button in the "Members" section.
- List of Members:** Points to the list of members in the "Members" section.
- Configuration Profiles assigned to the Selected group:** Points to the "Device Configuration Profiles: 2" entry in the "Group Information" sidebar.
- Click to retrieve information from Selected Group:** Points to the "Group Details" section.
- Export All:** Points to the "Export All" button.
- Export Selected:** Points to the "Export Selected" button.
- This section shows how many assignments was found targeting the selected group. Note: if none was found you will see "0" objects:** Points to the "Results: 3" text below the "Export Selected" button.
- You can Resize the Window:** Points to the window control buttons in the top right corner.

To retrieve the information about the **Assignments**, click on the Item you want:

The screenshot shows the 'GIA - Get Intune Assignments' application window. The interface includes a search bar for finding Azure AD groups, a list of groups on the left, a central pane for group information and policies, and a right pane for device configuration profiles. Annotations highlight key features:

- Find Azure AD Group:** A search bar with 'autopilot' entered and a search button.
- Group Information:** A list of policies for the selected group, including 'Device Configuration Profiles: 2'.
- Device Configuration Profiles:** A table showing profiles assigned to the group, such as 'Win 10 Enable Autopilot Reset from LockScreen'.
- Annotations:**
  - A red box points to the 'Device Configuration Profiles' table with the text: 'Information about the Device Configuration Profiles assignments in the Selected Group'.
  - A red box points to the 'Device Configuration Profiles: 2' link in the group information pane with the text: 'Click on Device Configuration Profile to check details'.
  - A red box points to the window's title bar with the text: 'You can Resize the Window'.

At the bottom, there are buttons for 'Show All Assignments', 'Export All', 'Export Selected', and 'Close'. The status bar shows '\* Ready' and a 'View Log' link.

## Retrieving Information from All Intune Assignments.

Is possible to retrieve all Intune Assignments regardless of the Azure Ad Group Selected.

In this case, You don't need to search for a group.

Just click the button

Show All Assignments

All Azure AD Groups with Assignments

- Administrative Templates: 4
- Applications: 101
- App Configuration Policies: 14
- App Protections Policies: 6
- Autopilot Configurations: 9
- Conditional Access Policies: 6
- Device Compliance Policies: 6
- Device Configuration Profiles: 31
- Device Settings Catalog: 9
- Endpoint Security Policies: 11
- Enrollment Restrictions: 14
- iOS App Provisioning Profiles: 1

Results: 223

Export All   Export Selected

Return **All Items** assigned to any Azure AD Group

### Note

Get Intune Assignments will bring Only items that are assigned to some Azure AD Group.

### Note

Keep in mind this action can take **Several minutes** to complete depending on the number of Items and groups in the environment.

## Group Members Information.

Starting on GIA 2.1 you can retrieve some information about members from the AAD Group.

You can click at any member or search for a specific string using the “Members box” then select the member you want:

The screenshot shows a web interface for managing group members. At the top, there's a header 'Members 27' and a search bar containing 'androidenterprise' with a 'Search' button. Below the search bar is a list of members, each represented by a small icon, a name, and a timestamp. The member '7bd60\_AndroidEnterprise\_AzureADSharedMode\_10/5/2022\_11:07 AM' is selected and highlighted in blue. Below the list is a 'Member Detail' section with various fields and their values:

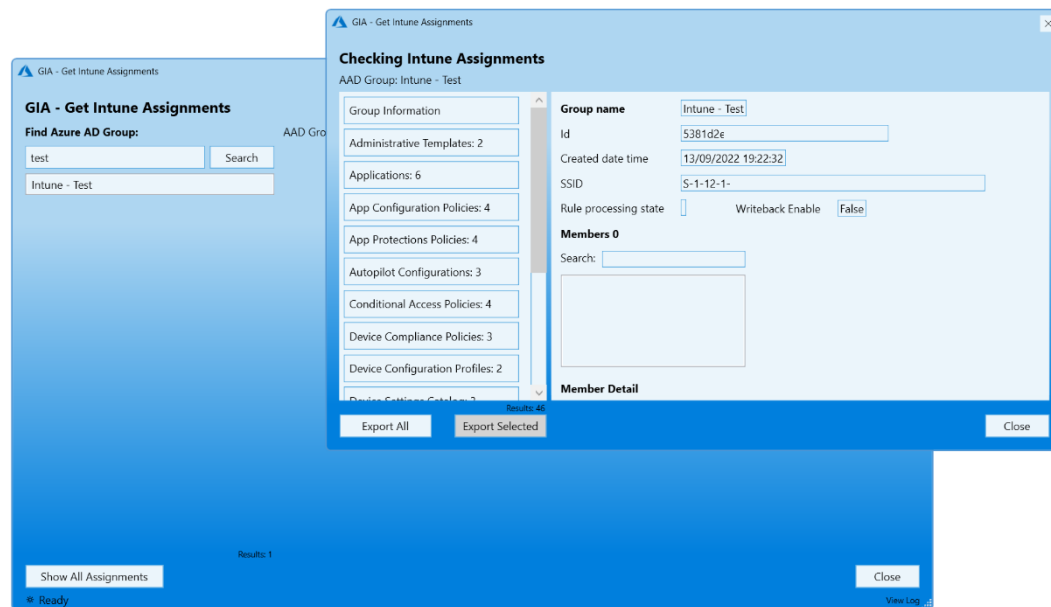
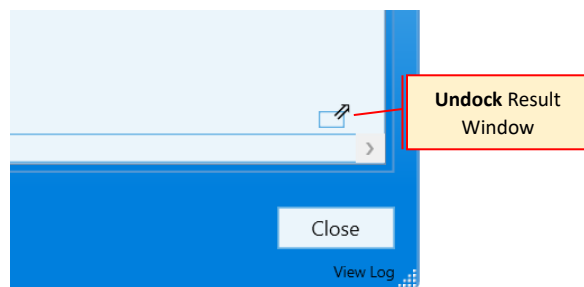
Member Detail	
Device name	7bd60_AndroidEnterprise_AzureADSharedMod
Management name	7bd60_AndroidEnterprise_AzureADSharedMod
Serial number	7bd60
Azure AD device Id	7bd60
Intune device id	7bd60
Ownership	company
Last sync date/time	02/11/2022 15:04:17
Enroll date/time	05/10/2022 11:07:00

At the bottom right of the detail section, there is a small icon of a document with a pencil, indicating an edit function.

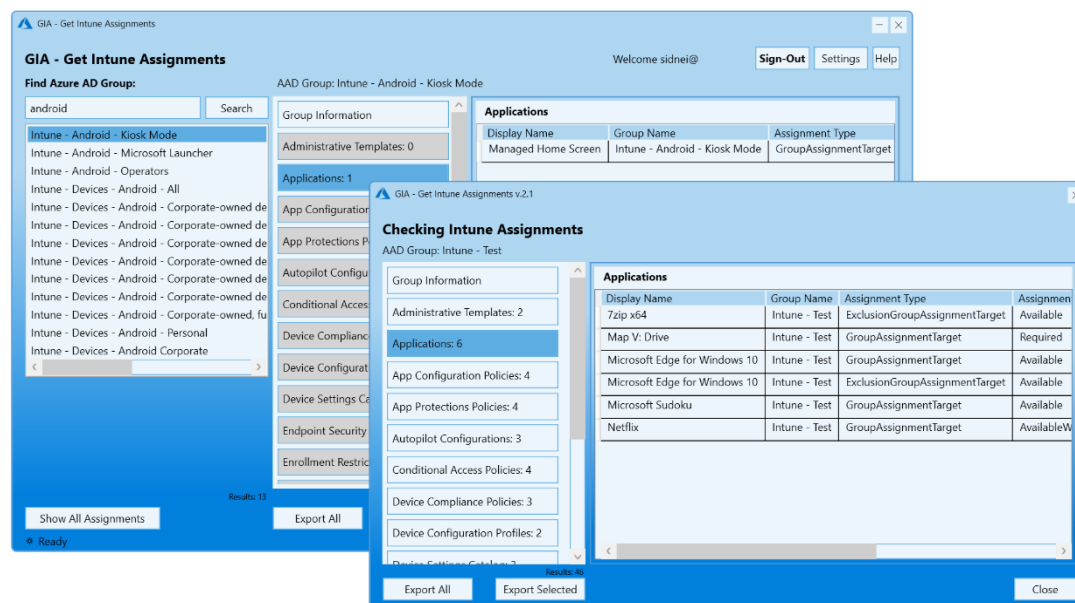
## Undocking.

Starting on GIA 2.1 you can Undock the Result windows. This is to facilitate you to compare two or more groups.

Just click on  “Undock Icon” from Result window:



Then you can search for another group:



Is possible to undock as many windows you want, just keep clicking on “Undock button”

## Enjoy Dark Theme Support.

You can switch between Light and Dark Theme clicking on Sun/Moon Icon

GIA - Get Intune Assignments
Welcome sidnei@

[Sign-Out](#)
[Settings](#)
[Help](#)

## GIA - Get Intune Assignments

**Find Azure AD Group:**

Search

- Intune - Devices - Windows - All
- Intune - Devices - Windows - All CoManaged
- Intune - Devices - Windows - Autopilot Dynam
- Intune - Devices - Windows - Shared Multi-Us
- Intune - Windows - Disable Microsoft Store
- Intune - Windows - Enable Windows Hello for
- Intune - Windows - Endpoint Security - Accou
- Intune - Windows - Endpoint Security - Baselir
- Intune - Windows - Endpoint Security - Baselir
- Intune - Windows - Endpoint Security - Bitlock
- Intune - Windows - Endpoint Security - Condit
- Intune - Windows - Endpoint Security - Defenc
- Intune - Windows - Endpoint Security - Defenc
- Intune - Windows - Endpoint Security - Defenc
- Intune - Windows - Endpoint Security - Firewa
- Intune - Windows - Health monitoring
- Intune - Windows - Kiosk Mode
- Intune - Windows - MDMWinsOverGPO (Cont
- Intune - Windows - OneDrive KFM

AAD Group: Intune - Devices - Windows - All

Group Information
Administrative Templates: 0
Applications: 1
App Configuration Policies: 0
App Protections Policies: 0
Autopilot Configurations: 0
Conditional Access Policies: 0
Device Compliance Policies: 0
Device Configuration Profiles: 1
Device Settings Catalog: 2
Endpoint Security Policies: 0
Enrollment Restrictions: 0

### Device Settings Catalog

Display Name	Group Name
Enable Windows Update for Business reports - 2023	Intune - Devices - Windows - A
MDMWinsOverGPO 2023	Intune - Devices - Windows - A

Results: 21
Results: 9

[Show All Assignments](#)
[Export All](#)
[Export Selected](#)

Ready
View Log

**Change Theme**  
Click Sun/Moon Icon  
to change Theme Color



## Version History

ver. 0.0a – June 15, 2022

Just a bunch of command line scripts in PowerShell to get Configuration Profiles and Apps.

ver. 0.0b – July 05, 2022

New scripts to get Compliance Policies

ver. 0.1a – July 27, 2022

The First version with GUI.

Added Administrative Templates and Device Catalogs

ver. 0.1b – August 22, 2022

The First version who worked.

Possible to retrieve the follow assigned items from Intune:

- Administrative Templates
- Applications
- Device Compliance Policies
- Device Configuration Profiles
  - Delivery Optimization
  - Device Restrictions
  - Custom
  - Identity Protection
  - Trusted Certificate
- Device Settings Catalogs
- PowerShell Scripts

Function to search and retrieve from the selected group

Function to retrieve all Assigned items (from the list above) from Intune regardless any group

ver. 0.1c – August 24, 2022

Removed the need for AzureAD Module

Increase speed in Groups query

BUG Fix

- Fix two requests of authentications
- GUI fixes and improvements
- If a new group was created with Script running was not possible to find the new group
- Fix limit of 100 groups on search
- Fix description column position

ver. 0.2b – August 25, 2022

Added Endpoint Security Policies

BUG Fix

- Minor errors fixed

ver. 1.0a – August 30, 2022

Starting to rebuild in C# .NET framework 4.8

Created the Main Form

Function to search AAD Groups

Function to Check Adm Templates

ver. 1.1a – September 02, 2022

Added Functions:

- Applications
- Device Compliance Policies

BUG Fix

- Fixed interface commands to Search
- Enhanced GUI objects
- Minor errors fixed

ver. 1.2a - September 09, 2022

Added Functions:

- Applications
- Device Compliance Policies
- Device Configuration Profiles
- Device Settings Catalog
- Endpoint Security Policies

BUG Fix

- Fixed Dialog Windows
- Minor errors fixed

ver. 1.2b - September 10, 2022

First beta version using C#.Net

Added Functions:

- PowerShell Scripts
- Conditional Access
- Created Sign-Out Function
- Created writeLog Function

ver. 1.3a - September 14, 2022

Created Help function and Doc.

Added Functions:

- Show All Intune Assignments Regardless Azure AD Group
- Export to CSV File

BUG Fix

- Fixed error on export Applications with Description in Multiline
- Minor errors fixed

Released this version to Alpha Test

ver. 1.3b - September 20, 2022

First released Beta Version

Created Settings Dialog to Configure Client ID and Tenant

Dark Theme

Created customized Title Bar

Added Functions:

- App Configuration Policies
- App Protection Policies

BUG Fix

- Fixed Alphabetical in results

ver. 1.4a - September 23, 2022

Graphical Interface enhancements

New title bar and window visuals

Added Functions:

- Auto Restart when changing Settings

BUG Fix

- Windows position in current monitor
- Save config file if was changed
- Export to file now include all Items
- Fixed Messages Box to show correct information
- Minor bugs fixed

ver. 1.5 - November 07, 2022

Introduced the Acronym GIA

Added support to use app secret (optional)

Apps now show available or required

Added Functions:

- Policy Sets

BUG Fix

- PowerShell Scripts missing from report

ver. 2.0 – April 17, 2023

Encrypted tenant data in config file

Added inclusion or exclusion group information for supported assignments

Multi window support

Settings new option to enable/disable assignments information

Scroll bar on Assignments window

Checking Intune Assignments scroll bar support

Added Functions:

- Autopilot Configurations
- Enrollment Restrictions
- iOS App Provisioning Profiles
- Proactive Remediations

BUG Fix

- Fixed multi errors messages when a group couldn't be retrieved
- Fix checkbox color in dark theme
- Fixed Sign-Out when using app secret
- Fixed CSV Export Format
- Fixed Description texts
- Minor interface bugs fixed

ver. 2.1 – Mai 25, 2023

Re-design window appearance

Single window app

Removed description column

Added Functions:

- Group Information
- Member Search
- Member Detail
- Undock / detach Result Window
- Export All or Selected Assignments Types

BUG Fix

- Fixed interface errors
- Fixed theme colors missing objects
- Fixed Graph paging when the result exceeds number of results
- Fixed Group information devices Ids
- Error when app size is too big
- Export All be inactive when any assignments are unchecked from settings
- Group members count was not working

**Thanks to all who collaborate and gave feedback to make GIA Better.**